

# Rolled Steel Shape Manufacturing: 2002

Issued September 2004

EC02-311-331221

## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
331221, Rolled steel shape manufacturing .....	2002..	120	146	11 437	558 895	8 299	17 075	373 289	1 622 206	3 094 484	4 681 495	126 739
	2001..	N	N	12 025	550 227	8 823	18 524	376 790	1 268 080	2 928 918	4 404 222	87 166
	2000..	N	N	12 852	593 176	9 686	20 024	405 414	1 628 291	3 459 126	5 094 136	87 525
	1999..	N	N	12 000	553 052	8 867	18 968	373 153	1 563 396	3 283 280	4 795 643	86 442
	1998..	N	N	14 319	637 705	10 493	22 081	436 130	1 934 527	4 323 644	6 266 371	152 138
	1997..	153	185	14 106	630 082	10 234	21 284	433 053	2 030 226	4 227 476	6 239 017	139 343

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>331221, Rolled steel shape manufacturing</b>												
United States .....	—	146	103	11 437	558 895	8 299	17 075	373 289	1 622 206	3 094 484	4 681 495	126 739
California .....	—	8	2	243	12 567	184	376	6 974	70 039	63 120	133 194	3 756
Connecticut .....	—	4	3	536	29 912	361	775	17 572	62 724	78 856	141 012	3 238
Illinois .....	—	11	7	555	21 766	405	828	13 620	53 909	117 816	181 603	10 881
Indiana .....	—	13	11	1 183	54 265	921	1 802	36 475	136 774	281 286	415 015	10 319
Michigan .....	—	17	13	804	38 239	590	1 207	26 158	100 144	233 265	335 297	7 171
New York .....	1	7	5	846	46 909	562	1 217	26 089	115 054	176 299	285 635	10 829
Ohio .....	—	22	18	3 149	170 919	2 363	4 916	119 247	590 229	1 016 140	1 554 353	31 652
Pennsylvania .....	—	23	19	2 171	103 619	1 563	3 149	75 907	193 508	608 435	812 459	20 620
Tennessee .....	1	4	4	308	13 161	246	538	9 888	106 995	87 934	194 669	11 920
Texas .....	6	6	2	125	5 281	98	211	3 937	11 561	25 961	39 825	1 565

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331221, Rolled steel shape manufacturing	
Companies <sup>1</sup> .....	number.. 120
All establishments <sup>2</sup> .....	number.. 146
Establishments with 1 to 19 employees .....	number.. 43
Establishments with 20 to 99 employees .....	number.. 65
Establishments with 100 employees or more .....	number.. 38
All employees <sup>3</sup> .....	number.. 11 437
Total compensation .....	\$1,000.. 738 360
Annual payroll .....	\$1,000.. 558 895
Total fringe benefits .....	\$1,000.. 179 465
Production workers, average for year .....	number.. 8 299
Production workers on March 12 .....	number.. 8 293
Production workers on May 12 .....	number.. 8 351
Production workers on August 12 .....	number.. 8 451
Production workers on November 12 .....	number.. 8 078
Production worker hours .....	1,000.. 17 075
Production worker wages .....	\$1,000.. 373 289
Total cost of materials .....	\$1,000.. 3 094 484
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 2 768 546
Resales .....	\$1,000.. 92 219
Purchased fuels .....	\$1,000.. 70 329
Purchased electricity .....	\$1,000.. 82 885
Contract work .....	\$1,000.. 80 505
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 706 202
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 4 681 495
Primary products value of shipments .....	\$1,000.. 4 165 105
Secondary products value of shipments .....	\$1,000.. 355 056
Total miscellaneous receipts .....	\$1,000.. 161 334
Value of resales .....	\$1,000.. 98 182
Contract receipts .....	\$1,000.. 45 887
Other miscellaneous receipts .....	\$1,000.. 17 265
Primary products specialization ratio .....	percent.. 92
Value of primary products shipments made in all industries .....	\$1,000.. 5 060 037
Value of primary products shipments made in this industry .....	\$1,000.. 4 165 105
Value of primary products shipments made in other industries .....	\$1,000.. 894 932
Coverage ratio .....	percent.. 82
Value added .....	\$1,000.. 1 622 206
Total inventories, beginning of year .....	\$1,000.. 884 666
Finished goods inventories .....	\$1,000.. 338 880
Work-in-process inventories .....	\$1,000.. 346 312
Materials and supplies inventories .....	\$1,000.. 199 474
Total inventories, end of year .....	\$1,000.. 975 003
Finished goods inventories .....	\$1,000.. 330 045
Work-in-process inventories .....	\$1,000.. 390 342
Materials and supplies inventories .....	\$1,000.. 254 616
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 2 533 969
Total capital expenditures (new and used) .....	\$1,000.. 126 739
Buildings and other structures (new and used) .....	\$1,000.. 12 775
Machinery and equipment (new and used) .....	\$1,000.. 113 964
Automobiles, trucks, etc., for highway use .....	\$1,000.. 3 274
Computers and peripheral data processing equipment .....	\$1,000.. 9 560
All other expenditures for machinery and equipment .....	\$1,000.. 101 130
Total retirements .....	\$1,000.. 52 125
Gross value of depreciable assets at end of year .....	\$1,000.. 2 608 583
Depreciation charges during year .....	\$1,000.. 136 324
Total rental payments .....	\$1,000.. 27 123
Buildings and other structures .....	\$1,000.. 14 614
Machinery and equipment .....	\$1,000.. 12 509
Total other expenses <sup>4</sup> .....	\$1,000.. 198 228
Response coverage ratio <sup>5</sup> .....	percent.. 68
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 71 060
Communications services <sup>4</sup> .....	\$1,000.. 4 325
Legal services <sup>4</sup> .....	\$1,000.. 3 304
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 2 476
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 1 944
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 3 342
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 11 469
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 3 657
Taxes and license fees <sup>4</sup> .....	\$1,000.. 10 364
All other expenses <sup>4</sup> .....	\$1,000.. 86 287

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
331221, Rolled steel shape manufacturing											
All establishments .....	—	146	11 437	558 895	8 299	17 075	373 289	1 622 206	3 094 484	4 681 495	126 739
Establishments with—											
1 to 4 employees .....	3	13	b	D	D	D	D	D	D	D	D
5 to 9 employees .....	5	12	87	3 829	64	127	2 487	9 010	19 832	28 615	1 061
10 to 19 employees .....	2	18	259	11 179	185	380	7 186	44 612	58 824	104 046	3 805
20 to 49 employees .....	—	40	1 217	53 441	897	1 776	35 633	153 116	323 375	480 391	14 481
50 to 99 employees .....	—	25	1 635	73 142	1 246	2 549	48 695	185 254	478 405	677 517	15 141
100 to 249 employees .....	—	27	3 908	179 738	2 809	5 796	113 744	549 210	878 922	1 415 971	62 363
250 to 499 employees .....	—	9	2 850	158 143	1 960	4 054	100 554	585 948	838 357	1 380 250	21 326
500 to 999 employees .....	—	2	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
331221	Rolled steel shape manufacturing.....	146	11 437	558 895	8 299	17 075	373 289	1 622 206	3 094 484	4 681 495	126 739
3312211	Cold rolled steel sheet and strip, made from purchased steel .....	56	7 008	372 245	4 968	10 231	250 584	1 053 594	2 095 702	3 096 444	65 860
3312213	Cold finished steel bars and bar shapes, made from purchased steel .....	37	2 832	116 401	2 150	4 451	76 433	299 787	678 622	992 114	30 611
3312215	Iron and steel powders, paste, and flakes, made from purchased steel.	18	966	45 449	677	1 425	27 814	207 773	275 878	486 752	27 616

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
331221	Rolled steel shape manufacturing .....	2002.. N 1997.. N	X X	X X	5 060 037 5 714 148
3312211	Cold rolled steel sheet and strip, made from purchased steel .....	2002.. N 1997.. N	X X	X X	3 583 468 4 101 917
33122111	Cold rolled steel sheet and strip, made from purchased steel .....	2002.. N 1997.. N	X X	X X	3 583 468 4 101 917
3312211100	Cold rolled steel sheet and strip, made from purchased steel <sup>1</sup> .....	2002.. 55 1997.. 54	X X	X X	3 583 468 4 101 917
3312213	Cold finished steel bars and bar shapes, made from purchased steel .....	2002.. N 1997.. N	X X	X X	1 024 489 1 592 402
33122131	Cold finished steel bars and bar shapes, made from purchased steel .....	2002.. N 1997.. N	X X	X X	1 024 489 1 592 402
3312213100	Cold finished steel bars and bar shapes, made from purchased steel <sup>2</sup> .....	2002.. 40 1997.. 71	X X	X X	1 024 489 1 592 402
3312215	Iron and steel powders, paste, and flakes, made from purchased steel .....	2002.. N 1997.. N	X X	X X	399 991 N
33122151	Iron and steel powders, paste, and flakes, made from purchased steel .....	2002.. N 1997.. N	X X	X X	399 991 N
3312215100	Iron and steel powders, paste, and flakes, made from purchased steel .....	2002.. 21 1997.. N	X X	S N	399 991 N
331221W	Rolled steel shape manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	52 089 19 829
331221WY	Rolled steel shape manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	52 089 19 829
331221WYWW	Rolled steel shape manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N 1997.. N	X X	X X	52 089 S
331221WYWY	Rolled steel shape manufacturing, nsk, for administrative-record establishments .....	2002.. N 1997.. N	X X	X X	— S

<sup>1</sup>For additional detail, see Current Industrial Report MA331B, Steel Mill Products. Also, this product code is primary to more than one industry. See industry 331111, product code 331111D100.  
<sup>2</sup>For additional detail, see Current Industrial Report MA331B, Steel Mill Products. Also, this product code is primary to more than one industry. See industry 331111, product code 331111F100.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3312211	Cold rolled steel sheet and strip, made from purchased steel	
	United States..... 2002..	3 583 468
	..... 1997..	4 101 917
	California..... 2002..	154 623
	..... 1997..	771 453
	Connecticut..... 2002..	154 745
	..... 1997..	348 033
	Illinois..... 2002..	114 849
	..... 1997..	N
	Indiana..... 2002..	392 835
	..... 1997..	N
	Michigan..... 2002..	409 013
	..... 1997..	N
	New York..... 2002..	192 267
	..... 1997..	N
	Ohio..... 2002..	1 329 309
	..... 1997..	966 624
3312213	Cold finished steel bars and bar shapes, made from purchased steel	
	United States..... 2002..	1 024 489
	..... 1997..	1 592 402
	Indiana..... 2002..	128 805
	..... 1997..	N
	Michigan..... 2002..	184 318
	..... 1997..	168 563
	Ohio..... 2002..	136 050
	..... 1997..	245 621
	Pennsylvania..... 2002..	91 924
	..... 1997..	192 156
3312215	Iron and steel powders, paste, and flakes, made from purchased steel	
	United States..... 2002..	399 991
	..... 1997..	N
	Pennsylvania..... 2002..	115 017
	..... 1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.



**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331221	Rolled steel shape manufacturing		
00900001	Total materials .....2002..	X	2 768 546
	.....1997..	X	3 949 303
32741009	Dead-burned dolomite fluxes .....2002..	X	D
	.....1997..	X	N
32799209	Fluorspar fluxes .....2002..	X	D
	.....1997..	X	N
32799211	Other fluxes .....2002..	X	D
	.....1997..	X	N
32700013	All other stone, clay, glass, and concrete products .....2002..	X	D
	.....1997..	X	N
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) .....2002..	X	7 277
	.....1997..	X	12 322
32512003	Oxygen (including high and low purity) .....2002..	X	D
	.....1997..	X	D
32518802	Sulfuric acid, new and spent (100 percent H2SO4) .....2002..	X	396
	.....1997..	X	N
32500039	All other chemicals and allied products .....2002..	X	2 674
	.....1997..	X	3 132
21221011	Mining crude iron ore and iron ore concentrates, including pelletized and manganiferous (gross weight) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
21220013	All other metal mining .....2002..	X	D
	.....1997..	X	N
21211001	Coal used in the production of coke .....1,000 s tons..2002..	D	D
	.....1997..	N	N
00190023	Iron and steel scrap, excluding home scrap .....1,000 s tons..2002..	822.5	97 967
	.....1997..	—	—
32410017	Lubricating oils and greases and other petroleum products .....2002..	X	5 581
	.....1997..	X	10 307
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	1 231
	.....1997..	X	1 081
33599103	Carbon and graphite electrodes .....2002..	X	6 043
	.....1997..	X	N
33120075	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 516 719
	.....1997..	X	2 473 838
33111203	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
33111205	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
33111207	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	—	—
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	3.0	21 509
	.....1997..	D	D
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	D	D
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	24 451
	.....1997..	X	N
32712400	Clay refractories .....2002..	X	D
	.....1997..	X	D
32712500	Nonclay refractories .....2002..	X	D
	.....1997..	X	N
32741007	Lime fluxes, including quicklime .....2002..	X	D
	.....1997..	X	D
32799207	Limestone fluxes .....2002..	X	D
	.....1997..	X	N
33120081	Steel rod, for wiredrawing .....1,000 s tons..2002..	P115.0	54 989
	.....1997..	156.8	89 015
33120067	Steel wire, for redrawing .....1,000 s tons..2002..	S	56 412
	.....1997..	S	168 133
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) .....1,000 s tons..2002..	S	10 944
	.....1997..	D	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	783 931
	.....1997..	X	961 122
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	95 426
	.....1997..	X	213 147

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.